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NOTICE OF ALLOWANCE AND FEE(S) DUE

26694 7590 12/01/2009

VENABLE LLP P.O. BOX 34385

WASHINGTON, DC 20043-9998

EXAMINER
MERCADO, JULIAN A

ART UNIT PAPER NUMBER

1795 DATE MAILED: 12/01/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/705 506	11/12/2003	Tetruo Taka	22207-108662	1163

TITLE OF INVENTION: FUEL CELL POWER GENERATING SYSTEM WITH TWO FUEL CELLS OF DIFFERENT TYPES AND METHOD OF CONTROLLING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includired below or directed oth	of transmitting the 1330 ig the Patent, advance of herwise in Block 1, by (a	ders and notification of r specifying a new corres	naintenance fees will pondence address; a	be mailed to the current nd/or (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
		ock 1 for any change of address)	Not Feel paps have	e: A certificate of ma (s) Transmittal. This c ers. Each additional p e its own certificate of	ailing can only be used for certificate cannot be used to saper, such as an assignment f mailing or transmission.	or domestic mailings of the for any other accompanying ent or formal drawing, must
VENABLE LL P.O. BOX 34385 WASHINGTON		/2009	I bo	Certify	icate of Mailing or Trans	emission g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	Α	TTORNEY DOCKET NO.	CONFIRMATION NO.
10/705,506 TITLE OF INVENTION CONTROLLING THE S		R GENERATING SYST	Tetsuo Take EM WITH TWO FUEL	CELLS OF DIFFER	32307-198662 RENT TYPES AND MET	1163 THOD OF
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE F	EE TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/01/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS]		
MERCADO.	JULIAN A	1795	429-022000	•		
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ess an assignee is ident h in 37 CFR 3.II. Comp	"Indication form ed. Use of a Customer A TO BE PRINTED ON	(1) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or a 2 registered patent atto- listed, no name will be listed, no name will be the name will be data will appear on the p T a substitute for filing an (B) RESIDENCE: (CTTY	vely, e firm (having as a m igent) and the names riceys or agents. If no printed. be) atent. If an assignce assignment.	sember a 2of up to name is 3is identified below, the d	locument has been filed for
Please check the appropri	iate assignee category or	categories (will not be pr	inted on the patent):	Individual 🚨 Corp	oration or other private gr	oup entity Government
Advance Order - #	o small entity discount p	permitted)	o. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038 is	s attached.	shown above) eficiency, or credit any in extra copy of this form).
 Change in Entity States a. Applicant claim 	tus (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no lon	ger claiming SMALL	ENTITY status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other than t Office.	he applicant; a registe	ered attorney or agent; or the	he assignee or other party in
Authorized Signature				Date		
Typed or printed name				Registration No.		
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR (on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 min idual case. Any com- er, U.S. Patent and Tr D THIS ADDRESS. S	public which is to file (an nutes to complete, includir ments on the amount of ti ademark Office, U.S. Dep SEND TO: Commissioner	d by the USPTO to process) ag gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

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VENABLE LLP			MERCADO, JULIAN A		
	P.O. BOX 34385			PAPER NUMBER	
WASHINGTON, DC 20043-9998			1795		
			DATE MAILED: 12/01/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 381 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 381 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	Applicant(s)		
10/705,506	TAKE, TETSUO			
Examiner	Art Unit			
ILILIANI MERCADO	1795			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 10-15-09.
- The allowed claim(s) is/are 1-6 and 12-35.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1.

 Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date 10-15-09
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413),
 Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other ____

DETAILED ACTION

Remarks

This Office action is responsive to applicant's amendment filed on July 20, 2009.

Claims 1-6 and 12-35 are pending.

Information Disclosure Statement

The Information Disclosure Statement (IDS) filed on October 15, 2009 has been considered by the examiner.

Claim Rejections - 35 USC § 112

The rejection of claims 1, 4-6, 12-15 and 24-35 under 35 U.S.C. 112, first paragraph has been withdrawn. Applicant's clarification (remarks on pg. 18) are noted.

The rejection of claims 1, 4-6, 12-15 and 24-35 under 35 U.S.C. 112, second paragraph for the reasons set forth in the prior Office action has been withdrawn. To this end, the amendment to claim 1 now reciting a reformed gas <u>produced</u> and the amendment to claims 1-6 now further defining the structural cooperative relationships in positively reciting a <u>flow control</u> valve is noted.

Claim Rejections - 35 USC § 103

The rejection of claims 1, 2, 4 and 5 under 35 U.S.C. 103(a) as based on Xu (U.S. Pat. 6.551,732 B1) and Morimoto et al. (U.S. Pat. 5.221,586) has been withdrawn.

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The rejection of claims 3 and 6 under 35 U.S.C. 103(a) based on Xu, Morimoto et al. and Gagnon (U.S. Pat. 4,098,960) has been withdrawn.

The rejection of claims 12-19 and 24-31 under 35 U.S.C. 103(a) based on Xu, Morimoto et al. and Scheffler et al. (U.S. Pat. 4,859,545) has been withdrawn.

The rejection of claims 20, 21-23 and 32-35 under 35 U.S.C. 103(a) based on Xu, Morimoto et al., Gagnon and Scheffler et al. (U.S. Pat. 4,859,545) has been withdrawn.

Allowable Subject Matter

Claims 1-6 and 12-35 are allowed. The following is an examiner's statement of reasons for allowance: the prior art of record does not teach or suggest the instant invention regarding a fuel cell power generating system having a first power generating means and a second power generating means, the system having a flow control valve for waste heat and a flow control valve for air in the structural cooperative relationship as claimed.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Maston et al. (U.S. Pat. 5,961,928), as cited in the prior Office action, teaches flow control valves for the control of fuel, steam and waste gas. See col. 5 lines 25-27.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Julian Mercado whose telephone number is (571) 272-1289. The

examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0661.

/Julian Mercado/

Examiner, Art Unit 1795

/PATRICK RYAN/

Supervisory Patent Examiner, Art Unit 1795